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(54) Titre: GENERATION D'UN TRAIN D'IMPULSIONS ELECTROMAGNETIQUES POUR TEST DE FIBRES OPTIQUES

(57) Abstract

The invention concerns a testing system and method, and a device emitting electromagnetic pulses comprising a generator (2) and an optical fibre (F) capable of transmitting an electromagnetic pulse generated by said generator (2). The invention is characterised in that said device (1A) further comprises at least an optical cavity (3A) which is arranged on the path of an incident electromagnetic pulse transmitted by the optical fibre (F) and comprising an input provided with a first partially reflecting mirror (M1A) and an output provided with a second partially reflecting mirror (M2A), said mirrors being arranged so as to generate at the optical cavity (3A) output, from one single incident electromagnetic pulse, a train of radiated electromagnetic pulses, whereof the geometric extent characteristics are variable.